

FELLOW NEWS

NEWS FOR AND ABOUT THE COASTAL MANAGEMENT FELLOWS

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THIS NEWSLETTER IS PUBLISHED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COASTAL SERVICES CENTER TO RELAY INFORMATION ABOUT THE FELLOWSHIP PROGRAM AND PROVIDE A FORUM FOR INFORMATION EXCHANGE AMONG FELLOWS, MENTORS, SEA GRANT, AND THE CENTER.

FOCUS ON FELLOWS:

IAN ZELO

1999-2001

Like many young boys living near the ocean and growing up on *National Geographic*, Ian Zelo wanted to grow up to be Jacques Cousteau. Although his path eventually led elsewhere, his heart has never wandered far from the sea.

Ian's interest in marine biology led him to a series of internships that began in high school when he spent a summer at the Marine Science Research Center at Stony Brook investigating algal blooms. Other research experiences include working for the Smithsonian Institute studying blue crabs, working in Miami at Florida International University on corals, and participating in Sea Education Association (SEA) semester, where he spent half of a semester on campus at Woods Hole studying maritime history, ship navigation, and oceanography. The remainder of the semester was spent on a research vessel that sailed from Miami to Honduras.

After completing his undergraduate degree in biology from Cornell University, Ian enrolled in graduate school at the University of North Carolina at Wilmington, where he studied chemical marine ecology. After a year and a half, he found that he had grown tired of working in labs and research and decided to take a break.

Ian returned to New York, where for almost two years he worked as a carpenter. During this period, he worked on many oceanfront homes and attended local zoning board meetings. Through this experience, Ian developed an



Ian Zelo kayaking on the Wakulla River near Wakulla Springs State Park, Florida.

interest in environmental policy and decided to return to graduate school.

At the University of Washington, Ian's thesis focused on the process behind a consensus-based shoreline protection/nourishment project implemented by a group of 15 homeowners in Puget Sound. On the recommendation of an advisor, he applied for the fellowship and was placed with the Florida Coastal Zone Management program to work on a project entitled "An Evaluation of Management and Human Use Concerns in Coastal/Marine Ecosystems: A Contribution to Adaptive Coastal Management." The project focuses on implementation of the second phase of the Florida coastal program's BlueWays initiative, an effort to promote adaptive coastal management.

The BlueWays initiative is comprised of three spatial components: ecological, human-use, and management. The ecological component examines physical conditions and

processes; the human-use component will show human activities that are dependent on or affect the coastal or marine environment; and the management component will display management efforts and protected areas. Each of these components will eventually be incorporated into a geographic information system (GIS) that will be used for environmental analysis and resource management.

The management component, which Ian has been tasked with developing, is being designed to be a stand-alone management tool, as well. Ian has taken a three-step approach by first defining management, then characterizing many different management agencies in the pilot area of Port Charlotte, Florida, and finally creating the stand-alone tool. BlueWays' major partner, the Florida Marine Research Institute (FMRI), has assisted significantly in all of these phases.

Typical definitions of management were expanded to include any non-use activity that can significantly affect the natural environment or its use. Such activities include regulation and permitting but also include education, research, and restoration efforts. In all, fourteen management types were identified and were then divided into 42 management areas. Characterization, which is well on its way to completion, involves a large data collection effort. A significant part of this is composed of interviews with coastal managers throughout the pilot region. The interview process ensures that managers have the opportunity to explain exactly what they do and how it relates back to the BlueWays management framework.

Although reorganization and considerable staff changes in the Florida Coastal Zone Management program have significantly slowed the progress of this project, Ian still hopes to have some useful form of the tool completed by the end of the fellowship.

Ian's interests are very broad, and he has no concrete post-fellowship plans. He says he will possibly seek a position with an environmental consulting firm in Florida, but plans to ultimately return to the Pacific Northwest. ❖

FOCUS ON FELLOWS: DAVID REVELL 1999–2001

Growing up on the coast of Southern California, David Revell has always been an avid surfer. His love for the sport developed into a great appreciation of the ocean and coastal environment and ultimately guided his career path. As an undergraduate student, he became very involved with the Surfrider Foundation, a nonprofit organization committed to protecting oceans, waves, and beaches, where he completed several internships in environmental activism. These internships, along with a surf trip to Indonesia, where he witnessed severe pollution, further focused David's commitment to help protect the oceans from which he had gained so much enjoyment.

After graduating with degrees in environmental studies and geography from the University of California at Santa Barbara, David enrolled in the marine resource management program at Oregon State University. He had been working



In New River spit, Oregon, a southern littoral cell, David monitors the GPS base station to establish a vertical control for beach profiles.

on regional coastal hazards planning in northern Oregon as part of his graduate studies when he learned of a similar project offered through the fellowship program for the southern coast of Oregon. Knowing this work would be a great complement to his project, David applied and was placed with the Oregon Coastal Zone Management program to work on the project entitled "Littoral Cell Management Plan."

Headlands divide the coast of Oregon into sections called littoral cells, or sandsheds. These natural divisions allow Oregon's coastal managers to take a regional approach to coastal hazards planning by investigating changes in these littoral cells, such as seasonal fluctuations and erosion from storm events. David's project involves a three-step process in the development of a management plan: inventory, risk assessment, and implementation.

First, a geographic information system (GIS) inventory was created at tax-parcel scale, including such features as elevation, orthophotography, parcel ownership, value, development date, and jurisdictional lines. The spatial analysis of these data provides support for coastal hazards planning. The second phase of the project, which David is currently working on, involves coastal hazard risk assessment. By investigating historical shoreline change and storm events, high-risk zones can be determined. Although much of the final implementation phase of the project will be done after he has completed his fellowship, David would like the opportunity to initiate this stage by using the tools developed in the first two steps to begin identifying different implementation options.

David describes the fellowship program as a great opportunity to attend conferences and build networks, as well as to see how a state agency works. His post-fellowship plans are still undetermined, but at the top of the list are pursuing a Ph.D. in coastal geology at the University of California at Santa Cruz or seeking a staff position with the Surfrider Foundation in Oregon, where he currently volunteers. Whichever route he chooses, it is certain that he

will always be thinking about the ocean, waves and beaches. ♣

FOCUS ON THE CENTER: COASTAL SERVICES MAGAZINE



Developed in 1998, the *Coastal Services* magazine was designed to serve as a forum for information exchange amongst the nation's coastal resource managers. This bimonthly trade publication covers a

vast array of issues facing managers.

The latest issue of *Coastal Services* addresses the impacts of September 11 on coastal resource management. Sixty-seven interviews were conducted with coastal managers from Guam to Maine. This special edition offers articles on NOAA's security efforts; how September 11 impacted New York managers; economic challenges and budget restrictions; the role managers may have in homeland security; changes in technology and information; and what the shift in national priorities may mean for the environment.

Topics from previous issues include takings, economic valuation of the environment, aquaculture, cruise ships, and management of private docks, to name a few. A searchable database including keywords from all articles, as well as on-line copies of all back issues, can be accessed at the magazine's Web site: www.csc.noaa.gov/magazine/.

Subscriptions may be requested through the Web site or by contacting Hanna Goss at (843) 740-1332, or via e-mail at Hanna.Goss@noaa.gov. ♣

*** Upcoming Events ***

MAY

5-8: Dredging '02

Location: Orlando, Florida

www.asce.org/conferences/dredging02

7-9: Shoreline Change Conference

Location: Charleston, South Carolina

www.csc.noaa.gov/shoreconf/

19-22: The Coastal Society 2002 Conference

Location: Galveston, Texas

www.thecoastalsociety.org/tcs18/

20-22: Seventh International Conference on Remote Sensing for Marine and Coastal Environments

Location: Miami, Florida

www.erim-int.com/CONF/7th_marine/7thmarine.html

30-31: Hurricane Mitigation Conference: "The Hurricane Andrew 10th Anniversary Summit

Location: Miami, Florida

www.ihc.fiu.edu/ihc/summit/

JULY

22-26: National Marine Educators Association Annual Meeting

Location: New London, Connecticut

www.oceanology.org/SENEME/NMEA2002/nmea2002.html

AUGUST

18-22: 132nd Annual Meeting of the American Fisheries Society

Location: Baltimore, Maryland

www.fisheries.org/annual2002/



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